

UTX-B03HR

UWP-D body-pack transmitter

Overview

Digital Audio Processing for high quality sound for ENG / EFP productions

The UTX-B03HR body-pack transmitter forms part of a complete UWP-D audio system offering the sound quality of digital audio processing combined with the reliability of analogue FM modulation. It offers wide frequency coverage with up to 72 MHz bandwidth (depending on region) across a wide range of channels, with a choice of models to choose from. Easy-to-use features include a large display, automatic channel setting function, USB connection for power supply and line input availability. The UWP-D Series system provides superb transient response performance for all ENG / EFP production applications.

SMC9-4S microphone input connector

The UTX-B03HR is equipped with a SMC9-4S (female) microphone connector designed to withstand the rigors of ENG shooting. A standard broadcast lavalier microphone ECM-77BC or ECM-44BC can be used with the connector.

Digital Audio Processing for high quality sound

Improves transient response performance between the UWP-D transmitter and receiver, providing impressive natural sound quality compared to conventional analogue wireless systems.

Wide frequency coverage with choice of channels available

The extra wide switching bandwidth covers a wide area, with a wide choice of channels available across multiple models – please refer to product specifications for more information. UTX-B03/14: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to

25) (not available in Brazil)

UTX-B03/30: 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz (UHF-TV channels 30 - 36 and 38 - 41) (not available in Brazil)

UTX-B03/42: 638.125 MHz to 697.875 MHz (UHF-TV channels 42 - 51)

Easy to use features

Large display, automatic channel setting function*, USB connection for power supply and line input availability.

*For customers in North and Latin America, when a /25 version of either transmitter or receiver is used with /14, /30 or /30A version of receiver or transmitter, AUTO SET (auto channel setting) function or frequency transferring function with IR sync cannot be used. Manual setting of matching frequencies is still available.

For customers in North America

The UTX-B03HR/30 and UTX-B03HR/42 models operates in portions of the 617-652 MHz or 663-698 MHz frequencies. As of 2017, these frequencies are being transitioned by the Federal Communications Commission (FCC) to the 600 MHz service to meet increasing demand for wireless broadband services. Users of these models must cease operating on these frequencies no later than July 13, 2020. In addition, users may be required to cease operations before that date if their operations could cause harmful interference to a 600 MHz service licensee's wireless operations on these frequencies. For more information, contact the FCC.

For customers in Canada, please consult ISED's Spectrum Advisory Bulletin for recent information related to the 600 MHz band transition.

Features

SMC9-4S microphone input connector

The UTX-B03HR is equipped with a SMC9-4S (female) microphone connector designed to withstand the rigors of ENG shooting. A standard broadcast lavalier microphone ECM-77BC or ECM-44BC can be used with the connector.

UWP-D Digital Audio Processing for high quality sound

The UWP-D Series wireless microphone systems uses Sony Digital Audio Processing to improve sound quality and transient response performance compared to conventional analogue wireless systems. It provides superb transient response performance. Analogue companding systems cannot accurately reproduce sounds such as a bell, tee shot or handclap, but Sony Digital Audio Processing reproduces them faithfully.

Large display for ease of use

UTX-B03HR body-pack transmitter features a bright 11.5mm x 27.8mm display, significantly larger than previous UWP models to make them easily readable in all situations.

Automatic channel setting

The receiver will automatically set the transmitter channel by IR Sync.

Wide frequency coverage

The extra wide switching bandwidth covers a wide area, with a wide choice of channels available across - please refer to product specifications for more information.

True Diversity reception system

The UWP-D system achieves exceptionally stable audio signal being delivered from two independent receiver sections within the unit. Optimum signal quality is delivered by the two receivers sections and a comparison circuit constantly pulls the one with the best signal to give dropout free transmission.

Compatibility with Sony 800 and UWP Series analogue audio receivers

The UWP-D Series transmitters and receivers are also compatible with Sony's WL-800 Series, UWP Series and Freedom Series, allowing users to switch between different companding modes.

USB for external power supply or charging batteries

UTX-B03HR body-pack transmitter has a micro USB terminal for connection to USB external portable power sources allowing the unit to be powered by the camcorder during use, resulting in hassle free power. You can also load NiMh batteries into the belt-pack to be charged through the micro USB.

Robust metal body

UTX-B03HR body-pack transmitter is made of strong, durable metal. Metal construction supports reliable use in rough operating conditions.

Line Input available

The UWP-D Series system has line input available for added flexibility.

Specifications

Specifications

Important Notes

This product is available in a variety of different frequency range models to suit the regulatory requirements of individual countries. Please contact your Sony reseller for more information on which product will best suit your specific needs.

Oscillator Type	Crystal-controlled PLL Synthesizer
Antenna Type	1/4 wave length wire
Type of Emission	F3E
Carrier Frequencies: Americas	14UC: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) (not available in Brazil) 25UC: 536.125 MHz to 607.875 MHz (UHF-TV channels 25-36) 42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42-51) (not available in US or Canada)
Carrier Frequencies: Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	UTX-B03/21: 470.025 MHz to 542.000 MHz (not available in Australia, Malaysia, Vietnam or New Zealand) UTX-B03/33: 566.025 MHz to 633.000 MHz (not available in New Zealand) UTX-B03/42: 638.025 MHz to 694.000 MHz
Carrier Frequencies: China	UTX-B03/38: 710.025 MHz to 782.000 MHz
Carrier Frequencies: Thailand, Taiwan, Singapore	UTX-B03/E: 794.125 MHz to 805.875 MHz

Carrier Frequencies: Japan	UTX-B03/JB: 806.125 MHz to 809.750 MHz
Carrier Frequencies: South Korea	UTX-B03/KR3: 925.125 MHz to 937.500 MHz
RF Power: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand, China	30mW / 5mW
RF Power: Japan, South Korea	10 mW / 2 mW
Input Connector	Sony SMC9-4S (female)
Reference Input Level	MIC: -60 dBV (at 0-dB attenuator level) LINE: +4 dBu
Audio Attenuator Adjustment Range	0dB to 27dB (in 3-dB steps): Mic input
Frequency Response: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	Transmission: 23Hz to 18kHz (typical)
Frequency Response: China, Thailand,	Transmission: 23Hz to 18kHz

Taiwan, Singapore, South Korea	(typical)
Frequency Response: Japan	Transmission 40 Hz to 15 kHz (typical)
Signal-to-Noise Ratio	96dB (max deviation, A-weighted)
Audio Delay	Approx. 0.35 msec
Pilot Tone Signal	32 kHz/ 32.382 kHz/ 32.768 kHz
Display	LCD
Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries) DC 5.0V (via USB micro-B)
Battery Operating Time: Americas, Europe, UAE, South Africa	Approx. eight hours with Sony's AA- size alkaline (LR6) batteries at 25°C(77°F) at 30-mW
Battery Operating Time: Australia, Malaysia, Vietnam, New Zealand, China	Approx. eight hours with Sony's AA- size alkaline (LR6) batteries at 25°C(77°F) at 30-mW
Battery Operating Time: Thailand, Taiwan, Singapore, Japan, South Korea	Approx 10 hours with Sony's AA- size alkaline (LR6) batteries at 25°C (77°F) at 10-mW output

Operating Temperature	0°C to 50°C 32°F to 122°F
Storage/Transport Temperature	-20°C to +55°C -4°F to +131°F
Dimensions	63 x 82 x 20 mm (excluding the antennas) (W x H x D)
Mass	Approx. 151 g (including batteries)

Note

- 1) Lavalier microphone is not included